

Mineral Industry Surveys

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MANGANESE IN APRIL 2000

In April, reported consumption of manganese ore containing 35% or more manganese, exclusive of that at iron and steel plants, was 40,900 metric tons, or virtually the same as that for the previous month, according to the U.S. Geological Survey. This brought the year-to-date total to 158,000 tons. The figures for April increase to 45,100 tons and 174,000 tons when estimates for annual respondents are added on the basis of 1998 data. Corresponding industry stocks of ore at the end of the month were 210,000 tons, which includes an estimate for annual respondents on the basis of 1998 data. This also was virtually the same as the corresponding figure for stocks at the end of March.

Data for domestic consumption and stocks of manganese ferroalloys and metal in 1999 will appear in a subsequent monthly report.

Foreign trade data for April will appear in a subsequent report. The data for March tabulated in this report indicate that for silicomanganese the quantity of imports was the greatest since May 1998. By comparison with receipts during recent years, quantities were comparatively large for those from India, Kazakhstan, Romania, and South Africa. Also, imports of silicomanganese from Bulgaria may have been the first ever from that country. Among exports, those of metal were the lowest in at least 17 years. Note: For early availability, the trade data appearing in this report are being placed on MINES FaxBack in preliminary form. The data for March were placed on FaxBack as of May 25. The FaxBack document number for the April trade data will be 420204.

The Defense National Stockpile Center of the Defense Logistics Agency, U.S. Department of Defense, reported for April a cash disposal from the National Defense Stockpile of 1,361 tons of natural battery-grade ore, all to American Minerals, Inc., King of Prussia, PA.

Ralston Purina Co., St. Louis, spun off its Battery Products business as an independent company, Energizer Holdings, Inc.

This was done in accordance with a schedule for the spin-off announced by Ralston Purina in June, 1999 (American Metal Market, 2000; Ralston Purina Co., 2000, p. 1, 8). Energizer is a manufacturer of a variety of batteries, including manganese-containing dry cells of the carbon-zinc and alkaline types. Energizer's headquarters also are in St. Louis, and the Eveready Battery Co. is its U.S. operating subsidiary.

Zemex Corp., Toronto, Canada, sold its Pyron Corp. and Pyron Metals Powders, Inc., subsidiaries to Sweden's Höganäs AB. Plants involved in the sale are located in New York, Pennsylvania, and Tennessee (Skillings Mining Review, 2000). Manganese sulfide has been among the powder metallurgy products manufactured by Pyron Corp. In 1995, Höganäs purchased the manganese sulfide and ferrophosphorus powders business of the Niagara Falls, NY, plant of Elkem Metals Co. Subsequently, Höganäs transferred its manufacture of these powders to Sweden.

Update

The International Manganese Institute, whose office is in Paris, France, has launched a new website to facilitate dissemination of information about production and use of manganese and to provide an easy way of accessing publications of the Institute. The URL address of the home page for this website is <<ht>Very large of the large of th

References Cited

American Metal Market, 2000, Bunny replacing Oregon Steel: American Metal Market, April 4, p. 5.

Ralston Purina Co., 2000, Ralston Purina Co. annual report 1999: St. Louis, Ralston Purina Co., 52 p.

Skillings Mining Review, 2000, Zemex sells metal powders division to Höganäs of Sweden: Skillings Mining Review, v. 89, no. 19, May 6, p. 10.

TABLE 1 SELECTED U.S. FOREIGN TRADE IN MANGANESE 1/

(Metric tons, manganese content) 2/

	Impo	rts for consumption	Exports			
	Ore and	Ferroalloy			Ferroalloy	
	dioxide	and metal	Total	Ore	and metal	Total
1999: 3/						
March	22,100	40,100	62,200	75	1,500	1,570
January-March	60,500	129,000	190,000	183	4,500	4,690
2000:						
January	17,200 4/	27,600 4/	44,800	144	926	1,070
February	25,900 4/	38,100	64,000	202	1,380	1,580
March	17,700 4/	56,300 4/	74,000	383 4/	1,000	1,390
Total	60,800	122,000	183,000	729	3,310	4,040

^{1/} Data are rounded to no more than three significant digits; may not add to totals shown.

Source: Bureau of the Census.

 ${\bf TABLE~2} \\ {\bf U.S.~IMPORTS~FOR~CONSUMPTION~OF~SILICOMANGANESE~IN~MARCH~2000~1/}$

(Metric tons, unless otherwise specified)

				Year to date				
	Gross	Mn	Customs	Gross	Mn	Customs		
Source	weight	content	value	weight	content	value		
Australia	4,510	3,000	\$2,210,000	11,800	7,830	\$5,680,000		
Bulgaria	2,450	1,590	1,030,000	2,450	1,590	1,030,000		
France				1,350	918	636,000		
India	8,820	5,740	3,470,000	13,100	8,430	5,380,000		
Kazakhstan	6,250	4,200	3,410,000	14,900	10,100	7,260,000		
Mexico	4,630 2/	1,770 2/	2,210,000 2/	15,300	8,740	6,980,000		
Norway				1,400	848	953,000		
Romania	4,040	2,640	1,830,000	4,040	2,640	1,830,000		
South Africa	16,600	11,200	7,630,000	29,800	20,100	13,400,000		
Venezuela				2,400	1,580	1,070,000		
Total	47,200	30,100	21,800,000	96,500	62,800	44,200,000		
Total, general imports	47,200	30,100	21,800,000	96,500	62,800	44,200,000		

⁻⁻ Zero.

^{2/} As reported except as estimated for imports of manganese dioxide and manganese waste and scrap and for exports from gross weights.

^{3/} Data may include revisions by the Bureau of the Census.

^{4/} All or part of these data have been referred to the Bureau of the Census for verification.

^{1/} Data are rounded to no more than three significant digits; may not add to totals shown.

^{2/} All or part of these data have been referred to the Bureau of the Census for verification.

 ${\bf TABLE~3} \\ {\bf U.S.~IMPORTS~FOR~CONSUMPTION~OF~FERROMANGANESE~IN~MARCH~2000~1/}$

(Metric tons)

					Year to date	
	Gross	Mn	Customs	Gross	Mn	Customs
Source	weight	content	value	weight	content	value
Low carbon:						
China	40	36	\$45,100	517	477	\$586,000
Italy	100	89	141,000	1,360	1,180	1,520,000
Japan	2,510	2,130	2,000,000	4,020	3,350	3,160,000
Mexico				30	27	50,600
Norway				21	17	10,300
South Africa	220	208	355,000	450	426	733,000
Ukraine				240	228	275,000
Total, low carbon	2,870	2,470	2,540,000	6,640	5,700	6,330,000
Total, general imports of low carbon	2,870	2,470	2,540,000	6,640	5,700	6,330,000
Medium carbon, 1%-2% C:						
Mexico	2,250	1,800	1,320,000	6,830	5,490	4,100,000
South Africa	1,500	1,220	880,000	4,000	3,270	2,340,000
Total, m.c., 1%-2% C	3,750	3,030	2,200,000	10,800	8,770	6,440,000
Total, general imports						
of m.c., 1%-2% C	3,750	3,030	2,200,000	10,800	8,770	6,440,000
Medium carbon, 2%-4% C:						
South Africa				20	16	10,700
Total, m.c., 2%-4% C				20	16	10,700
Total, general imports						
of m.c., 2%-4% C				20	16	10,700
High carbon:						
Australia	5,850	4,480	2,120,000	9,170	7,010	3,360,000
Canada				36	28	26,200
France	326	255	123,000	12,000	9,420	5,040,000
South Africa	18,300	14,200	6,760,000	31,100	24,200	11,300,000
Total, high carbon	24,500	18,900	9,000,000	52,300	40,600	19,700,000
Total, general imports of high carbon	24,500	18,900	9,000,000	52,300	40,600	19,700,000
Grand total	31,100	24,400	13,700,000	69,800	55,100	32,500,000
Grand total, general imports	31,100	24,400	13,700,000	69,800	55,100	32,500,000

⁻⁻ Zero.

Source: Bureau of the Census.

 ${\it TABLE~4}$ U.S. IMPORTS OF MANGANESE ORE (20% OR MORE Mn) IN MARCH 2000 1/ 2/

(Metric tons)

	20% - 47%	Mn	47% or mo	re Mn	Total	
Source	Gross	Mn	Gross	Mn	Gross	Mn
	weight	content	weight	content	weight	content
Australia			1,290	722	1,290	722
Brazil	7,030	3,250			7,030	3,250
Gabon			18,400	9,380	18,400	9,380
Mexico	1,640 3/	1,500 3/			1,640	1,500
Total	8,670	4,750	19,600	10,100	28,300	14,800
Year to date:						
Australia			1,290	722	1,290	722
Brazil	7,030	3,250			7,030	3,250
Gabon	25,400	11,200	71,900	35,800	97,300	47,000
India	18	112			18	112
Mexico	2,480	1,870			2,480	1,870
Morocco			20	11	20	11
Total	35,000	16,400	73,200	36,500	108,000	52,900

⁻⁻ Zero.

^{1/} Data are rounded to no more than three significant digits; may not add to totals shown.

^{1/} Quantities for general imports and imports for consumption are identical.

^{2/} Data are rounded to no more than three significant digits; may not add to totals shown.

 $^{3/\,}All$ or part of these data have been referred to the Bureau of the Census for verification.

 ${\it TABLE~5}\\ {\it U.S.~IMPORTS~FOR~CONSUMPTION~OF~MANGANESE~DIOXIDE~AND~MANGANESE~METAL~IN~MARCH~2000~1/}$

(Metric tons, gross weight, unless otherwise specified)

		Mangane	ese dioxide		Manganese metal				
			Year to date		Unwr	Unwrought		Other	
		Customs		Customs					
Source	Quantity	value	Quantity	value	Quantity	Year to date	Quantity	Year to date	
Australia	2,790	\$3,770,000	7,430	\$10,300,000					
Belgium	91	149,000	166	277,000					
China			42	46,900	200	594		75	
France							10	31	
Germany	8	18,800	25	110,000	26	81	7	8	
Greece	98	129,000	148	195,000					
Ireland	814	1,130,000	2,430	3,370,000					
Japan							5	5	
Netherlands					69 2/	69	10	23	
South Africa	939	1,330,000	2,780	3,920,000	1,270	3,000			
Taiwan							18	18	
United Kingdom			111	164,000	95	190			
Venezuela							18	18	
Total	4,740	6,530,000	13,100	18,400,000	1,660	3,930	68	177	
Total, general imports	4,740	6,530,000	13,200	18,500,000	1,680	3,950	68	177	

⁻⁻ Zero.

Note: Imports for consumption of metallic manganese waste and scrap totaled 13 tons, all of which was from Canada, to give a year-to-date total of 65 tons.

Source: Bureau of the Census.

TABLE 6 U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE, SILICOMANGANESE, AND MANGANESE METAL BY COUNTRIES OF DESTINATION IN 2000 1/ $^{\prime}$

(Metric tons, gross weight)

			Ferrom	anganese,					
	Manga	Manganese ore		2% or less C		Silicomanganese		Manganese metal 2/	
	March	Year to date	March	Year to date	March	Year to date	March	Year to date	
Australia		142							
Belgium								19	
Brazil		22							
Canada	614	1,160	721	2,090	212	849	58	253	
Chile								4	
Colombia								8	
Finland								12	
Hong Kong							1	1	
Italy							9	18	
Japan								46	
Korea, Republic of								3	
Mexico	130 3/	130	8	59	57	257	26	62	
Netherlands							18	18	
Taiwan							21	30	
United Kingdom							(4/)	(4/)	
Total	766	1,460	730	2,150	269	1,110	134	475	

⁻⁻ Zero

Note: Exports of ferromanganese with more than 2% carbon totaled 146 tons, all of which went to Canada, to give a year-to-date total of 515 tons.

^{1/} Data are rounded to no more than three significant digits; may not add to totals shown.

^{2/} All or part of these data have been referred to the Bureau of the Census for verification.

^{1/} Data are rounded to no more than three significant digits; may not add to totals shown.

^{2/} Includes manganese-aluminum, some other alloys, and waste and scrap.

^{3/} All or part of these data have been referred to the Bureau of the Census for verification.

 $^{4/\} Less$ than $1/2\ unit.$

TABLE 7 U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN MARCH 2000, BY CLASS 1/

				Year to date			
			Principal sources and destinations:			Principal sources and destinations:	
	Gross weight	Value 2/	gross weight (metric tons);	Gross weight	Value 2/	gross weight (metric tons);	
Class	(metric tons)	(thousands)	value (thousands) 2/	(metric tons)	(thousands)	value (thousands) 2/	
Imports for consumption:							
Manganese oxides other than dioxide	67	\$142	South Africa 36; \$91	231	\$386	South Africa 72; \$177	
Sulfates, basket category,							
including manganese sulfate	3,480	2,230	Mexico 2,280; \$1,000	11,300	6,090	Mexico 5,810; \$2,760	
Potassium permanganate	216	431	Czech Republic 67; \$131	371	711	Czech Republic 155; \$301	
Manganites, manganates, and							
other permanganates			XX			XX	
Exports:							
Manganese dioxide	252	335	Canada 132; \$50	849	901	Canada 484; \$199	
Manganese oxides other than dioxide	676	955	United Kingdom 304; \$451	2,250	2,530	Canada 962; \$377	
Sulfates, basket category,							
including manganese sulfate	2,860	1,300	Canada 2,410; \$668	6,150	2,890	Canada 5,230; \$1,660	
Potassium permanganate	111	223	Germany 60; \$112	331	614	Mexico 92; \$122	
Manganites, manganates, and							
other permanganates	3	25	Singapore 3; \$23	34	242	United Kingdom 23; \$155	
VV Not applicable 7am		·-	·	·	·	·	

XX Not applicable. -- Zero.

^{1/} Data are rounded to no more than three significant digits.

^{2/} For imports, Customs value; for exports, f.a.s. value.